Validated By CRFValidator v 1.0.2

Application No: 10574575 Version No: 1.1

Input Set:

Output Set:

Started: 2007-06-06 18:39:28.281
Finished: 2007-06-06 18:39:28.800
Elapsed: 0 hr(s) 0 min(s) 0 sec(s) 519 ms
Total Warnings: 4
Total Errors: 0
No. of SeqIDs Defined: 14
Actual SeqID Count: 14

Error code		Error Description
W	213	Artificial or Unknown found in <213> in SEQ ID (11)
W	213	Artificial or Unknown found in <213> in SEQ ID (12)
W	213	Artificial or Unknown found in <213> in SEQ ID (13)
W	213	Artificial or Unknown found in <213> in SEQ ID (14)

SEQUENCE LISTING

<110> Conti, Elena
Bayliss, Richard
Schultz, Carsten
Vernos, Isabelle
Sardon, Teresa

<120> Crystals of an Aurora-A TPX2 Complex, TPX2 Binding Site of Aurora-A, Aurora-A Ligands and Their Use

<130> 2021-123

<140> 10/574,575
<141> 2006-04-04

<150> EP 03023136.9
<151> 2003-10-10

<150> PCT/EP04/011381
<151> 2004-10-11

<160> 14

<170> PatentIn version 3.3

<210> 1
<211> 43
<212> PRT
<213> Homo sapiens

<400> 1

Met Ser Gln Val Lys Ser Ser Tyr Ser Tyr Asp Ala Pro Ser Asp Phe
1 5 10 15

Ile Asn Phe Ser Ser Leu Asp Asp Glu Gly Asp Thr Gln Asn Ile Asp
20 25 30

Ser Trp Phe Glu Glu Lys Ala Asn Leu Glu Asn
35 40

<210> 2
<211> 39
<212> PRT
<213> Xenopus sp.

<400> 2

Met Glu Asp Thr Gln Asp Thr Tyr Ser Tyr Asp Ala Pro Ser Ile Phe
1 5 10 15

Asn Phe Ser Ser Phe His Glu Asp His Asn Ala Asp Ser Trp Phe Asp

```
            20                  25                  30

Gln Val Thr Asn Ala Glu Asn
        35
```

<210> 3
<211> 45
<212> PRT
<213> Fugu rubripes

<400> 3

```
Met Ala Glu Ser Asn Phe Asp Ala Asp Ala Glu Leu Tyr Glu Tyr Asp
1               5                   10                  15

Ala Pro Ser Glu Val Val Asp Leu Lys Glu Leu Gln Asp Val Glu Gly
            20                  25                  30

Asp Asp Lys Trp Phe Glu Glu Gln Ala Leu Gly Val Asp
        35                  40                  45
```

<210> 4
<211> 282
<212> PRT
<213> Homo sapiens

<400> 4

```
Glu Ser Lys Lys Arg Gln Trp Ala Leu Glu Asp Phe Glu Ile Gly Arg
1               5                   10                  15

Pro Leu Gly Lys Gly Lys Phe Gly Asn Val Tyr Leu Ala Arg Glu Lys
            20                  25                  30

Gln Ser Lys Phe Ile Leu Ala Leu Lys Val Leu Phe Lys Ala Gln Leu
        35                  40                  45

Glu Lys Ala Gly Val Glu His Gln Leu Arg Arg Glu Val Glu Ile Gln
    50                  55                  60

Ser His Leu Arg His Pro Asn Ile Leu Arg Leu Tyr Gly Tyr Phe His
65                  70                  75                  80

Asp Ala Thr Arg Val Tyr Leu Ile Leu Glu Tyr Ala Pro Leu Gly Thr
                85                  90                  95
```

```
Val Tyr Arg Glu Leu Gln Lys Leu Ser Lys Phe Asp Glu Gln Arg Thr
            100                 105                 110

Ala Thr Tyr Ile Thr Glu Leu Ala Asn Ala Leu Ser Tyr Cys His Ser
        115                 120                 125

Lys Arg Val Ile His Arg Asp Ile Lys Pro Glu Asn Leu Leu Leu Gly
    130                 135                 140

Ser Ala Gly Glu Leu Lys Ile Ala Asp Phe Gly Trp Ser Val His Ala
145                 150                 155                 160

Pro Ser Ser Arg Arg Thr Thr Leu Cys Gly Thr Leu Asp Tyr Leu Pro
                165                 170                 175

Pro Glu Met Ile Glu Gly Arg Met His Asp Glu Lys Val Asp Leu Trp
            180                 185                 190

Ser Leu Gly Val Leu Cys Tyr Glu Phe Leu Val Gly Lys Pro Pro Phe
        195                 200                 205

Glu Ala Asn Thr Tyr Gln Glu Thr Tyr Lys Arg Ile Ser Arg Val Glu
    210                 215                 220

Phe Thr Phe Pro Asp Phe Val Thr Glu Gly Ala Arg Asp Leu Ile Ser
225                 230                 235                 240

Arg Leu Leu Lys His Asn Pro Ser Gln Arg Pro Met Leu Arg Glu Val
                245                 250                 255

Leu Glu His Pro Trp Ile Thr Ala Asn Ser Ser Lys Pro Ser Asn Cys
            260                 265                 270

Gln Asn Lys Glu Ser Ala Ser Lys Gln Ser
        275                 280
```

<210> 5
<211> 279
<212> PRT
<213> Xenopus sp.

<400> 5

```
Glu Gly Lys Lys Lys Gln Trp Cys Leu Glu Asp Phe Glu Ile Gly Arg
1               5                   10                  15
```

```
Pro Leu Gly Lys Gly Lys Phe Gly Asn Val Tyr Leu Ala Arg Glu Arg
            20                  25                  30

Glu Ser Lys Phe Ile Leu Ala Leu Lys Val Leu Phe Lys Ser Gln Leu
        35                  40                  45

Glu Lys Ala Gly Val Glu His Gln Leu Arg Arg Glu Val Glu Ile Gln
    50                  55                  60

Ser His Leu Arg His Pro Asn Ile Leu Arg Leu Tyr Gly Tyr Phe His
65                  70                  75                  80

Asp Ala Ser Arg Val Tyr Leu Ile Leu Asp Tyr Ala Pro Gly Gly Glu
                85                  90                  95

Leu Phe Arg Glu Leu Gln Lys Cys Thr Arg Phe Asp Asp Gln Arg Ser
            100                 105                 110

Ala Met Tyr Ile Lys Gln Leu Ala Glu Ala Leu Leu Tyr Cys His Ser
        115                 120                 125

Lys Lys Val Ile His Arg Asp Ile Lys Pro Glu Asn Leu Leu Leu Gly
    130                 135                 140

Ser Asn Gly Glu Leu Lys Ile Ala Asp Phe Gly Trp Ser Val His Ala
145                 150                 155                 160

Pro Ser Ser Arg Arg Thr Thr Leu Cys Gly Thr Leu Asp Tyr Leu Pro
                165                 170                 175

Pro Glu Met Ile Glu Gly Arg Met His Asp Glu Thr Val Asp Leu Trp
            180                 185                 190

Ser Leu Gly Val Leu Cys Tyr Glu Phe Leu Val Gly Lys Pro Pro Phe
        195                 200                 205

Glu Thr Asp Thr His Gln Glu Thr Tyr Arg Arg Ile Ser Lys Val Glu
    210                 215                 220

Phe Gln Tyr Pro Pro Tyr Val Ser Glu Glu Ala Arg Asp Leu Val Ser
225                 230                 235                 240
```

```
Lys Leu Leu Lys His Asn Pro Asn His Arg Leu Pro Leu Lys Gly Val
                245                 250                 255

Leu Glu His Pro Trp Ile Ile Lys Asn Ser Gln Leu Lys Lys Lys Asp
            260                 265                 270

Glu Pro Leu Pro Gly Ala Gln
        275
```

<210> 6
<211> 267
<212> PRT
<213> Fugu rubripes

<400> 6

```
Arg Arg Arg Trp Ser Leu Glu Asn Phe Asp Ile Gly Arg Pro Leu Gly
1               5                   10                  15

Lys Gly Lys Phe Gly Asn Val Tyr Leu Ala Arg Glu Arg Gln Ser Arg
            20                  25                  30

Phe Ile Leu Ala Leu Lys Val Leu Phe Lys Lys Gln Leu Glu Lys Ala
        35                  40                  45

Gly Val Glu His Gln Leu Arg Arg Glu Val Glu Ile Gln Ser His Leu
    50                  55                  60

Arg His Pro Asn Ile Leu Arg Leu Tyr Gly Tyr Phe His Asp Pro Ser
65                  70                  75                  80

Arg Val Tyr Leu Ile Leu Glu Phe Ala Pro Lys Gly Glu Leu Tyr Gly
                85                  90                  95

Glu Leu Gln Arg Cys Gly Ser Phe Pro Glu Glu Arg Ser Ala Thr Tyr
            100                 105                 110

Ile Met Glu Leu Ala Asp Ala Leu Asn Tyr Cys His Ser Lys Lys Val
        115                 120                 125

Ile His Arg Asp Ile Lys Pro Glu Asn Leu Leu Leu Gly Ala Asn Gly
    130                 135                 140

Glu Leu Lys Ile Ala Asp Phe Gly Trp Ser Val His Thr Pro Ser Ser
```

```
145                 150                 155                 160

Arg Arg Ser Thr Leu Cys Gly Thr Leu Asp Tyr Leu Pro Pro Glu Met
                165                 170                 175

Ile Glu Gly Lys Thr His Asp Glu Lys Val Asp Leu Trp Ser Leu Gly
            180                 185                 190

Val Leu Cys Tyr Glu Phe Leu Val Gly Lys Pro Pro Phe Glu Ala Lys
        195                 200                 205

Thr His Glu Glu Thr Tyr Arg Arg Ile Ser Arg Val Glu Tyr Thr Tyr
    210                 215                 220

Pro Ala His Thr Asn Ile Ser Asp Gly Ala Lys Asp Leu Val Ser Arg
225                 230                 235                 240

Leu Leu Lys His Asn Pro Met Gln Arg Leu Pro Val Gln Gly Val Leu
                245                 250                 255

Ala His Pro Trp Val Val Glu Arg Ser Thr Lys
            260                 265
```

<210> 7
<211> 269
<212> PRT
<213> Drosophila sp.

<400> 7

```
Gln Lys Pro Lys Lys Thr Trp Glu Leu Asn Asn Phe Asp Ile Gly Arg
1               5                   10                  15

Leu Leu Gly Arg Gly Lys Phe Gly Asn Val Tyr Leu Ala Arg Glu Lys
            20                  25                  30

Glu Ser Gln Phe Val Val Ala Leu Lys Val Leu Phe Lys Arg Gln Ile
        35                  40                  45

Gly Glu Ser Asn Val Glu His Gln Val Arg Arg Glu Ile Glu Ile Gln
    50                  55                  60

Ser His Leu Arg His Pro His Ile Leu Arg Leu Tyr Ala Tyr Phe His
65                  70                  75                  80
```

```
Asp Asp Val Arg Ile Tyr Leu Ile Leu Glu Tyr Ala Pro Gln Gly Thr
                85                  90                  95

Leu Phe Asn Ala Leu Gln Ala Gln Pro Met Lys Arg Phe Asp Glu Arg
            100                 105                 110

Gln Ser Ala Thr Tyr Ile Gln Ala Leu Cys Ser Ala Leu Leu Tyr Leu
        115                 120                 125

His Glu Arg Asp Ile Ile His Arg Asp Ile Lys Pro Glu Asn Leu Leu
    130                 135                 140

Leu Gly His Lys Gly Val Leu Lys Ile Ala Asp Phe Gly Trp Ser Val
145                 150                 155                 160

His Glu Pro Asn Ser Met Arg Met Thr Leu Cys Gly Thr Val Asp Tyr
                165                 170                 175

Leu Pro Pro Glu Met Val Gln Gly Lys Pro His Thr Lys Asn Val Asp
            180                 185                 190

Leu Trp Ser Leu Gly Val Leu Cys Phe Glu Leu Leu Val Gly His Ala
        195                 200                 205

Pro Phe Tyr Ser Lys Asn Tyr Asp Glu Thr Tyr Lys Lys Ile Leu Lys
    210                 215                 220

Val Asp Tyr Lys Leu Pro Glu His Ile Ser Lys Ala Ala Ser His Leu
225                 230                 235                 240

Ile Ser Lys Leu Leu Val Leu Asn Pro Gln His Arg Leu Pro Leu Asp
                245                 250                 255

Gln Val Met Val His Pro Trp Ile Leu Ala His Thr Gln
            260                 265
```

<210> 8
<211> 284
<212> PRT
<213> Caenorhabditis elegans

<400> 8

```
Ala Arg Glu Glu Ser Cys Trp Ser Leu Asp Asp Phe Asp Val Gly Arg
```

```
1               5                   10                  15

Pro Leu Gly Lys Gly Lys Phe Gly Asn Val Phe Ile Ser Arg Glu Lys
            20                  25                  30

Lys Thr Lys Arg Ile Ile Ala Leu Lys Val Leu Phe Lys Thr Gln Leu
        35                  40                  45

Leu Gln Leu Gly Val Ser His Gln Leu Lys Arg Glu Ile Glu Ile Gln
    50                  55                  60

Tyr His Leu Arg His Pro Asn Ile Leu Thr Leu Tyr Gly Tyr Phe His
65                  70                  75                  80

Asp Asp Lys Arg Val Phe Val Ile Leu Asp Tyr Ala Ser Arg Gly Glu
                85                  90                  95

Leu Phe Asn Val Leu Gln Ser Gln Pro Gly His Lys Val Asn Glu Val
            100                 105                 110

Ile Ala Gly Arg Phe Val Arg Gln Leu Ala Asn Ala Leu His Tyr Cys
        115                 120                 125

His Ser Lys Gly Val Ile His Arg Asp Ile Lys Pro Glu Asn Leu Leu
    130                 135                 140

Leu Asp Ser Lys Leu Asn Leu Lys Leu Ala Asp Phe Gly Trp Ser Val
145                 150                 155                 160

Val Ala Asp His Ser Lys Arg His Thr Leu Cys Gly Thr Met Asp Tyr
                165                 170                 175

Leu Ala Pro Glu Met Val Ser Asn Gln Pro His Asp Phe Asn Val Asp
            180                 185                 190

Ile Trp Ala Ile Gly Ile Leu Leu Phe Glu Met Leu Val Gly Tyr Ala
        195                 200                 205

Pro Phe Ala Asn Gln Thr Gly Asp Lys Leu Ile Ala Arg Ile Lys Glu
    210                 215                 220

Cys Lys Ile Tyr Ile Pro Ser Val Val Thr Asp Gly Ala Ala Ser Leu
225                 230                 235                 240
```

```
Ile Asn Ala Ile Ile Lys Lys Glu Pro Gln Glu Arg Leu Pro Leu Val
                245                 250                 255

Asp Ile Met Ala His Pro Trp Ile Lys Glu Met Lys Gln Arg Glu Asp
            260                 265                 270

Ile Glu Val Pro Leu Phe Ile Ser Thr Leu Thr Lys
        275                 280
```

<210> 9
<211> 279
<212> PRT
<213> Homo sapiens

<400> 9

```
Asp Ile Leu Thr Arg His Phe Thr Ile Asp Asp Phe Glu Ile Gly Arg
1               5                   10                  15

Pro Leu Gly Lys Gly Lys Phe Gly Asn Val Tyr Leu Ala Arg Glu Lys
            20                  25                  30

Lys Ser His Phe Ile Val Ala Leu Lys Val Leu Phe Lys Ser Gln Ile
        35                  40                  45

Glu Lys Glu Gly Val Glu His Gln Leu Arg Arg Glu Ile Glu Ile Gln
    50                  55                  60

Ala His Leu His His Pro Asn Ile Leu Arg Leu Tyr Asn Tyr Phe Tyr
65                  70                  75                  80

Asp Arg Arg Arg Ile Tyr Leu Ile Leu Glu Tyr Ala Pro Arg Gly Glu
                85                  90                  95

Leu Tyr Lys Glu Leu Gln Lys Ser Cys Thr Phe Asp Glu Gln Arg Thr
            100                 105                 110

Ala Thr Ile Met Glu Glu Leu Ala Asp Ala Leu Met Tyr Cys His Gly
        115                 120                 125

Lys Lys Val Ile His Arg Asp Ile Lys Pro Glu Asn Leu Leu Leu Gly
    130                 135                 140
```

```
Leu Lys Gly Glu Leu Lys Ile Ala Asp Phe Gly Trp Ser Val His Ala
145                 150                 155                 160

Pro Ser Leu Arg Arg Lys Thr Met Cys Gly Thr Leu Asp Tyr Leu Pro
                165                 170                 175

Pro Glu Met Ile Glu Gly Arg Met His Asn Glu Lys Val Asp Leu Trp
            180                 185                 190

Cys Ile Gly Val Leu Cys Tyr Glu Leu Leu Val Gly Asn Pro Pro Phe
        195                 200                 205

Glu Ser Ala Ser His Asn Glu Thr Tyr Arg Arg Ile Val Lys Val Asp
    210                 215                 220

Leu Lys Phe Pro Ala Ser Val Pro Thr Gly Ala Gln Asp Leu Ile Ser
225                 230                 235                 240

Lys Leu Leu Arg His Asn Pro Ser Glu Arg Leu Pro Leu Ala Gln Val
                245                 250                 255

Ser Ala His Pro Trp Val Arg Ala Asn Ser Arg Arg Val Leu Pro Pro
            260                 265                 270

Ser Ala Leu Gln Ser Val Ala
        275
```

<210> 10
<211> 280
<212> PRT
<213> Xenopus sp.

<400> 10

```
Glu Met Pro Lys Arg Lys Phe Thr Ile Asp Asp Phe Asp Ile Gly Arg
1               5                   10                  15

Pro Leu Gly Lys Gly Lys Phe Gly Asn Val Tyr Leu Ala Arg Glu Lys
            20                  25                  30

Gln Asn Lys Phe Ile Met Ala Leu Lys Val Leu Phe Lys Ser Gln Leu
        35                  40                  45

Glu Lys Glu Gly Val Glu His Gln Leu Arg Arg Glu Ile Glu Ile Gln
    50                  55                  60
```

```
Ser His Leu Arg His Pro Asn Ile Leu Arg Met Tyr Asn Tyr Phe His
65                  70                  75                  80

Asp Arg Lys Arg Ile Tyr Leu Met Leu Glu Phe Ala Pro Arg Gly Glu
                85                  90                  95

Leu Tyr Lys Glu Leu Gln Lys His Gly Arg Phe Asp Glu Gln Arg Ser
            100                 105                 110

Ala Thr Phe Met Glu Glu Leu Ala Asp Ala Leu His Tyr Cys His Glu
        115                 120                 125

Arg Lys Val Ile His Arg Asp Ile Lys Pro Glu Asn Leu Leu Met Gly
    130                 135                 140

Tyr Lys Gly Glu Leu Lys Ile Ala Asp Phe Gly Trp Ser Val His Ala
145                 150                 155                 160

Pro Ser Leu Arg Arg Arg Thr Met Cys Gly Thr Leu Asp Tyr Leu Pro
                165                 170                 175
```